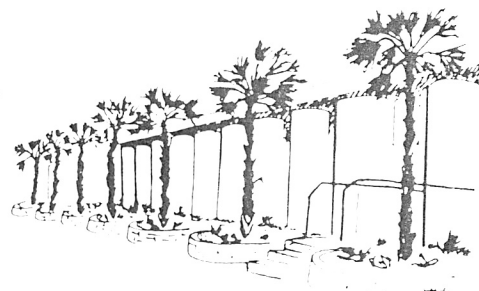


THE PALMIST



Volume 2, No. 7

ELECTRONIC SPECIALTY CO., ELECTRONICS DIV., PORTLAND, ORE.

JULY, 1965

ESED Gyroscopes Scheduled to Visit Moon

Relay Sales Product Manager Named Brubaker Joins ES

Mr. Del Brubaker has been hired to the position of Relay Sales Product Manager for the Electronics Division, Portland. He takes over the position left vacant when Al Vincent was appointed Product Reliability Manager (see The Palmist for Jan. 1965).

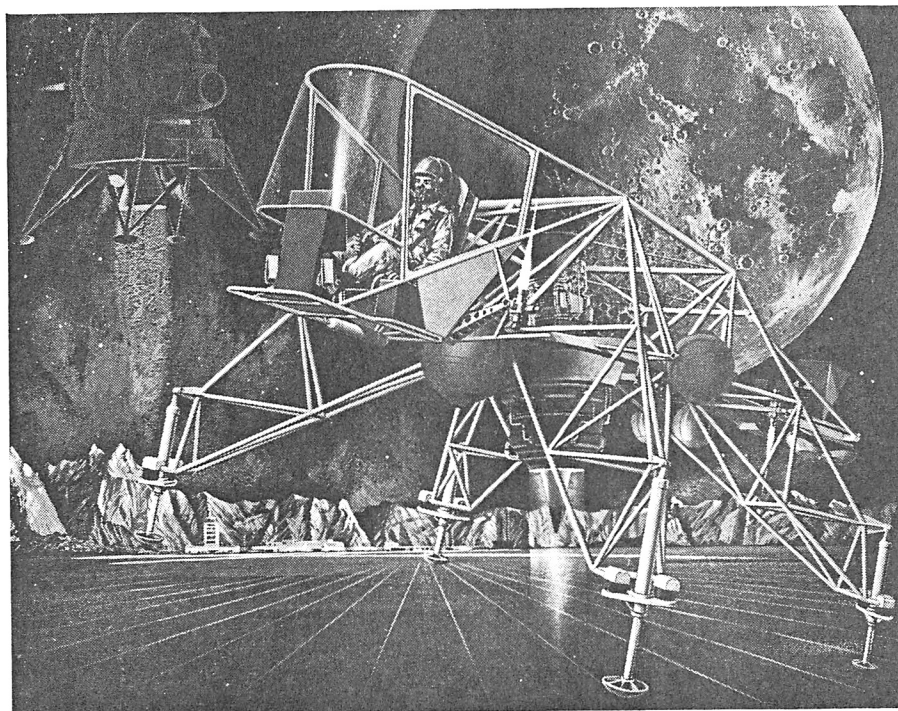
Del comes to us with a good background in Sales and Engineering, having been Field Sales Manager for two years for Hi-G, Incorporated, of Windsor Locks, Connecticut, whose product lines include relays, time delays, phase sensors, voltage sensors, filters, switches, etc. Prior to that he was a Field Sales Engineer, and a Project Engineer on electronic temperature control systems, having majored in electrical engineering at Illinois Institute of Technology.

His immediate goal is to increase the division's sales volume through a coordinated force of Sales Engineers and Representatives.

Del was born and raised in Freeport, Illinois, is married and has a year old daughter, Carrie.



Del Brubaker, Relay Sales Product Mgr.



A model of the Lunar Landing Vehicle now undergoing tests is shown against a lunar background. In left background is the vehicle proposed for the actual trip to the moon.

Picnic Almost Ready

The major arrangements for the annual company picnic have been completed, and the picnic committee is now hard at work smoothing out the final details, such as scheduling of events.

The date and place have been determined: August 7 at the Oaks Amusement Park. The prizes have been selected and purchased, and they are terrific. (See page 4). The dinner menu has been settled and the catering service engaged.

All that now remains is lining up the games and contests and working out a time table.

The games committee for the picnic announces that there will be a "Crazy Hat" competition, so those of you with ideas now have time to develop them. (more picnic news on Page 4)

Electronics Division employees were gratified to learn recently that two models of our NV5000 series gyroscopes are destined ultimately for a trip to the moon.

The trip will be made aboard a Lunar Landing Vehicle built for N.A.S.A. by Bell Aerosystems of Buffalo, New York.

A model of the L.L.V. is currently undergoing tests at Edwards Air Force Base, California, piloted by a former test pilot on the famous X-15 program.

The NV5000 gyro is a miniature vertical reference gyro with synchro pickoff on each gimbal axis. The gyros feed information into the control system which maintains the vehicle in flight.

Amos Morgan Moves Into Engineering

Amos Morgan, former Chief Test Engineer of the Environmental Test Lab., has been promoted to a position of Project Engineer in the Relay Engineering Department. He will be reporting to Chief Engineer Van Huckabee, and will be concerned primarily with the development of new product items.

Amos joined the Electronics Division in 1953, and worked in Gyro Assembly in balancing, assembly, and test. He became an Engineering aid in 1956, and a Test Engineer in the lab in 1959.

John Foster, Test Engineer, will step up to become Chief Test Engineer as Morgan's replacement. John has been a Test Engineer in the lab since his employment with E. S. in 1959.

THE STRAW THAT BROKE THE CAMEL'S BACK

Could have been nothing
Where something should have been,
Could have been in pencil
When it should have been in pen;

Could have been tomorrow
When it should have been today,
Could have been the talk too long
With nothing much to say;

Could have been the ear was deaf
When there were things to hear,
Could have been the dreamy mind
With thoughts that were so dear;

Could have been a hurry job
Where it was guess, guess, guess,
Could have been so poorly done
That it's someone else's mess.

Could have been a plan not made
No why, no how, no when,
Could have been a defect
Where a Zero should have been.

A. C. R.

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ELECTRONIC SPECIALTY CO.
Electronics Division
Portland, Oregon
Edited by
BOB CUMMINGS

Staff and Department Representatives:

Lilly Harper	Bill Nakamura
Joe Morrow	Jackie Petty
Honora Dallas	Walt Justice
Ruth Arndt	John Nielsen
Jack Rothweiler	Al Gotcher
Illomay VanOrsow	Donna Conlon

Phil Gustlin, and many others

Vital Statistics JULY BIRTHDAYS

Gerald Smith	July 1
John Foulk	July 3
Art Aldinger	July 9
Dale Burnham	July 10
Grace Burrell	July 10
Leila Lindell	July 10
Calvin Foulk	July 11
Walt Russell	July 11
Iretha Egan	July 12
Dorothy Hills	July 12
Willy Heusser	July 13
Al Gotcher	July 14
Dorothy Allen	July 15
Bob Brill	July 15
Gertrude Holly	July 15
Harriett Amundsen	July 17
Don Austen	July 17
Agnes Kasner	July 17
Gerry Laws	July 18
Mabel Liedtke	July 18
Robin Robinson	July 19
Frank Regory	July 20
Dick Prince	July 20
Imogene Randall	July 20
Lyla Wilcox	July 21
Ellen Reid	July 22
Flora Culver	July 23
Laura Decker	July 23
Dwayne Bennett	July 25
John Genoud	July 25
Marguerite Hall	July 25
Lucille Grey	July 26
Carole Herzman	July 26
Laura Woltman	July 26
Darleen Sedey	July 27
Bob Bushor	July 29
Everett Vance	July 30
Esther Huber	July 31

We have missed Betty Steven's face the last few weeks, and the softball team is missing a good member. Betty injured the tendons in a hand in one of the very first softball games. Other team members have shown up limping and bruised -- this must be a game only for the stout-hearted.

Ladena Gollighugh and Erna Wolfe returned from sick leave; we are still missing Gertrude Lewis and Charlotte Lindholm. Ann Crosier has also been added to the sick list.

Another May wedding overlooked in our last issue of The Palmist was that of Clara Hess and Roger Bell, both ES employees, married May 15.

The first June bride was Georgia Knox who married Paul W. Carpenter.

Hal Flint and wife, Nell, celebrated 44 years of marriage on June 9. Congratulations! Hal figures this many years of marriage should warrant a holiday on your anniversary day -- but we noticed he reported for work as usual.

PERTINENT INFORMATION

Thank all of you for the beautiful plant, (yellow mums), delivered personally by Mr. Walt Justice to my hospital bed.

I have to add a very special "thank you" to Opal Paukner for a job well done, and to Mr. Paukner for allowing Opal to remain "one more month." The cards, flowers, and plants made the trip almost worthwhile.

Shirley Ray

Congratulations to Carl Warren, Gyro Machine Shop, proud father of baby boy born June 30. Papa & Mama Warren have another son at home.

Both May Saito and Gerry Laws have had their sons home from the service on leaves. May's son leaves for overseas duty and Gerry's son will be stationed in Washington, D. C. temporarily.

Walt Manning is scheduled for another Hawaii trip on his vacation--this is getting to be a yearly event.

Our warmest congratulations to Joe and Arlene Kohler who celebrated their thirtieth wedding anniversary on the 28th of June!

Blood Bank Report

The Red Cross Bloodmobile visited our Electronics Division on Friday, June 18, and collected 48 pints of blood from E.S.E.D. donors. (This is the equivalent of 6 gallons!)

The Bloodmobile unit arrived about noon and immediately started preparing the blue conference room for their receiving station. There were 18 people in this unit; six paid employees and 12 volunteers. This included 6 registered nurses, one doctor, seven nurses aides, and four men to unload and reload the equipment.

The unit started processing donors at 1:30 P.M. Fifty-eight employees offered blood, ten were deferred, but by 5:00 P.M. 48 employees had donated a pint of blood each.

A telephone conversation with the Blood Bank Center revealed that 27 employees of Electronic Specialty had voluntarily come into the center during 1964-65 to donate. One was deferred, but 26 gave blood entirely on their own initiative.

The Red Cross asks that we relay their gratitude and thanks to all the Electronic Specialty people for their wonderful response to the need for blood.

From My Desk . . .



**THE
CORPORATION;
PARENT
COMPANY**

"The Corporation." The mental image raised by that phrase varies with each individual, and is only as accurate as is his understanding of the corporation's place in our lives. "Our Division" we understand because it is a daily part of us. It is personal; people we know, like us, working hard at their jobs to make it successful. The corporation is also a part of us, a very important part.

The corporate management team is composed of a group of men with a depth of experience in all phases of business and industry. And their business is to make our business grow.

"Growth" is their watchword, and because they are leaders with imagination and daring they have caused the corporation to invest heavily in new facilities and modern equipment for all the divisions. Having provided the existing divisions with increased capabilities, the corporate management team is continually seeking out new ideas and products for the divisions to work on in order to fully utilize their new abilities.

Each division manager is given full responsibility and authority for his division. He gets little interference, but sound advice and firm backing. The profits from all the divisions go into the corporation, and in return, additional working capital is available to the divisions from the corporation. Interdependence between divisions is encouraged as long as the cast is competitive. Our prime example is the Welded Modules which we are building for the Los Angeles division.

Thus, "The Corporation" becomes to each division benefactor, counselor, banker, and employer, with a fatherly interest in the family of divisions.

This is "The Corporation" which is our parent company.

Phil E. Justin

Electrode Grinding Fixture Speeds Production Here

Manufacturing Engineering has scored again! Specifically, Basil Gilman, Welding Engineer, and Mert Ganske, Tool Engineer, have devised and built a fixture for sharpening the electrodes used in welding the Welded Modules. They are now able to process four times the number of electrodes as formerly.

The fixture is self-contained, in that it has a motor driven grinding belt on adjustable guides, permitting precise location of the grinding surface relative to the work position.

The work holder serves also as the carriage, and is so constructed that the operator can readily locate the work to a pre-set gauge, and the carriage controls the angle of the ground surface within 1/4 of a degree.

Before the fixture was available, the rate of production for regrinding the electrodes was approximately 40 per hour. Now they are turned out at a rate of better than 160 per hour.

This is significant in that there are 240 electrodes used in a 16 hour day by the two work shifts, and they are replaced after 4 hours of use by re-ground ones, thus putting a heavy work-load responsibility on the tool room. The savings in labor costs are impressive.

The benefits to be gained do not stop there, however. The success of this fixture has led to the design of another, more exotic fixture, to be used for grinding relay pole pieces to the required shape and dimensions for welding into the frame sub-assembly. It will be nearly automatic, utilizing a continuous feed, locate, and eject system.

Trouble Spots Exposed by ZD Suggestions

How often have you said to yourself, "I need three hands for this job!"? And how often have you overcome that need by some small act such as turning the item around so you could hold it better, or by changing sequence by doing a following operation first to get an annoying piece fastened out of the way, or something similar?

Or maybe in your home workshop you have devised a way to keep that special tool handy without searching, that would be just the ticket at your particular job station or workbench.

If you have such a special "thing" that helps you do your job right, please share it with the rest of us and write

Gyro Machinists See More Improvement

by
Carl Watts

The fellow you see every morning in the machine shop, peering through the window, and watching the girls go by is Elmer McManigle. Since we moved over here last year "Mac" has found it necessary to purchase a new pair of specs so that he can fully appreciate the view. When 7:45 rolls around, however, Mac is all business. He can always be counted on to point out ways to simplify our drill fixtures, making them easier to operate and, thereby, more efficient, and this enables us to do our drilling with less defects.

His most recent suggestions include the 3200 outer gimbal and base assembly fixtures. Through Mac's suggestions we have been able to redesign these fixtures so that they have less moving parts, thus making them more accurate. Tooling holes are drilled in these fixtures and their simplification has also improved the quality of the parts in subsequent operations on other machines.

His counterpart on swing shift is Elige Gillum. "Lige" has shown his aptitude and experience by pointing out many cases of process simplification. Eliminating and combining operations where possible will always make us more efficient. Lige has been off for a week now taking physical examinations. We miss him and hope he can be back with us soon.

Joseph Pufka has proven himself to be the current chess champion. of Gyro Machine by overwhelming this writer the last four games in succession. If this gives anyone in the Model Shop or Tool Room any ideas, I am sure Joe will accept all challenges.

it on a "Zero Defects Suggestion."

Perhaps you are aware of a condition in your area which could lead to mistakes or confusion by a new employee who was not familiar with the procedure. Report it on a "Zero Defects Suggestion." Let's get those rejects down and the quality of our products up!

"Perfection In Performance" of our products starts here in these seldom recognized and seemingly little things which we fail to notice because "that's the way it is." That is our first mistake. Let's correct it with the spotlight of awareness through the "Zero Defects Suggestion."

Door Prizes for Annual Picnic Stir the Imagination



Door Prizes for the annual Employees Picnic include sporting goods, camping and picnic equipment, small appliances and household items. The quantity of gifts insures that at least 10% of the employees will receive gifts.

One Out of Ten Employees to Be Lucky; Grand Picnic Prize Is Color Television Set!

The list of door prizes to be presented to employees attending the annual ESED picnic on August 7 at the Oaks Amusement Park continues to grow. This reporter was privileged to view a display and came away entranced. The quality of the gifts reflects the imagination and better-than-average taste exercised by your committee.

The field of gifts ranges from sports, camping, and picnicking to items designed to encourage gracious living. Golf balls and cart, camping equipment including a stove, lantern, cooler chest and sleeping bag. There is a bowling bag and a certificate for a Black Beauty bowling ball, redeemable at Rockwood Lanes.

For the patio a padded chaise lounge and a rotisserie broiler complete with a "shish kebabber." The hunter, bird watcher, or student of astronomy will be elated with the telescope and binoculars. We have a collection of small home appliances such as toaster and waffle iron, food mixer, blender, food slicer, vacuum cleaner, and an automatic oven.

In addition, there will be two room-conditioning humidifiers. Built by the Space Conditioning System Division of Electronic Specialty Co. at Harrisonburg, Virginia, these are excellent units.

The small, desirable items are everywhere. Shavers for men and ladies,

barometer, bathroom scales, ornate clocks, transistor radios, and clock radios that will make it a pleasure to be awakened in the morning.

While I was still marvelling at all this, there came the announcement of the Big One!

The Grand Prize for this year will be a color television set! A large console floor model, this is a beautiful piece of furniture to enhance any home.

All this adds up to scores of happy employee families at the picnic August 7.

Buffet Dinner to Be Featured

Those employees and their families who attended last year's picnic will be glad to hear that another delicious buffet dinner will be served at the picnic on August 7.

The dinner will be catered by Dale's Catering Service of Portland and will feature two types of salad, fried chicken, baked ham, baked beans, drink and dessert.

The Picnic Committee reports that already more than 1000 people have voiced their intention to attend, and not all the replies are in. Last year there were only 580 diners, so don't be late!

New Engineers Strengthen Division

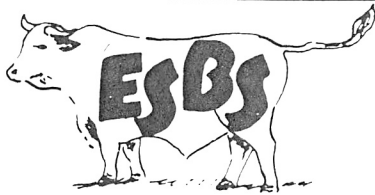
The Engineering Department has gained four new people whose efforts in design and development of new products will, hopefully, soon be felt in increased demands on the production area. In the order of their appearance in the department, the new Engineering personnel are:

Dave Vanasen -- Dave is a Project Engineer whose assignment is to develop a new gyro for an advanced system application. He also has applications engineer responsibility for spring energized gyros and other gyro components.

Peggy Yates -- Peggy is a Design Layout Draftsman on a special assignment at present, but will soon be backing up our project engineers in the design and development of new products. She worked at Autonetics for several years where her work included the design of gyroscope test equipment.

Don Austen -- Don is a familiar figure in the E. S. Engineering Department where he worked for many years as a draftsman illustrator while studying for his degree from Portland State College. He is now drawing special cut-away illustrations of our products for the Manufacturing Engineering Department.

Frank Ofner, Jr. -- Frank recently received his degree in electrical engineering from Notre Dame University, Class of 1965. He is working with Jim Deer making mathematical studies in connection with relay and gyroscope design requirements, and forecasting performance limitations of new product design concepts.



Perhaps you have already noticed that this edition of The Palmist is late. There are several contributing factors involved here -- a major one being the fact that this is vacation time. Some of our correspondents are on vacation, as were the pressman and several key personnel at the printers.

Vacation time has increased the work load for all of us, so it is understandable that the task of "getting out the paper" has to wait until the regular job is done.

Our first bouquet this month goes to Donna Warnock for secretarial efficiency. She can find papers that have been lost on the desk of her boss, Al Vincent.

Earlier this season Donna Conlon of Purchasing bought her children a large plastic pool for the hot weather. Her phone number is similar to that of David Douglas High School.

Imagine the surprise of one unknown person who called the high school to ask if the swimming pool were open, and heard a youngest answer, "No, Mommy is draining it!"

Thanks, gang, for keeping my neck off the block this time. The scrap display cabinet shows a reduction for the second straight month: Down 3 2/3% from the previous month.



Ponder and reflect awhile on these "Twelve Things To Think About":

1. The Value of Time.
2. The Success of Perseverance.
3. The Pleasure of Working.
4. The Dignity of Simplicity.
5. The Work of Character.
6. The Power of Kindness.
7. The Influence of Example.
8. The Obligation of Duty.
9. The Wisdom of Economy.
10. The Virtue of Patience.
11. The Improvement of Talent.
12. The Joy of Originating.

We just found out why we have so many applicants for the position of Engineering Clerk. Our departing clerk, Billie O'Dell, was presented with a chaise lounge as a going away gift. Indicative of a soft job?



George Schroth, Foreman in Gyro Assembly, enjoys birthday cake presented to him by his assembly crew on his birthday, June 8.

TOOL ROOM AND MODEL SHOP NEWS

Sometimes it's hard to gain recognition for one's deeds. Don Backstrand was in a big motorcycle race for 100 miles through the mud in Tillamook Burn. Now Don won this race hands down but the recognition took a half hour of mud peeling to identify the winner.

Mud, however, is an asset to Harold Kenny. He has special mud-tosser hub caps and is thus able to two-tone his lemon colored Chevy every time we have rain.

This same Kenny character has a new theme song; namely "Standing On The Corner." He is rumored to sing especially loud when he forgets to pick up George Schaeffer for his ride to work.

Chief Calvin (Foulck) has new shoes. These "water" moccasins must be quite comfortable and must be a big help on the hunt. Cal has been hunting for better talent for his Junior League ball club and must have succeeded because said team is in the midst of a winning streak of one game.

Art Leblanc, who was formerly the "East Canada Duck Shooting Champion," blabbed one of his secrets for getting high flying ducks. He loaded salt in his shotgun shells. Why?--So these high flying ducks wouldn't spoil on the way down.

When Dick Gross and his wife, Bobbi, went to pick up their new trailer it seems that Bobbi drove off and forgot to give Dick the keys to the other car, with which he was to follow. One story has it that Dick set a mile record run on 82nd Street to catch up, and another is that he jumped in another car demanding "STOP THAT CAR!" For further information, you might check with our source "Loose Lips Nielsen."

A cowboy rode into town one Saturday evening, and in order to pass the time before the night's entertainment got underway, he wandered over to the blacksmith shop.

The smithy was making horseshoes and the cowboy picked one off the pile beside the anvil. He dropped it immediately and thrust his hand in his pocket trying to look nonchalant.

"Hot, wasn't it?" asked the blacksmith. "Nope," replied the cowboy. "It just doesn't take me long to look at a horseshoe!"

'EMPLOYEE OF THE MONTH' IS NEW CITIZEN - APPLICANT, WILLY POELWIJK

Our "EMPLOYEE OF THE MONTH" is a brand-new, refreshing employee, Willy Poelwijk (pronounced Pool-Vag).

Bubbling with enthusiasm and thankfulness, she is a pleasure to visit. Natives of Indonesia, Willy and her husband, Jan, left their Island for Holland in 1950, with two children -- one of them only two days old. Their baby, James, received his small-pox vaccination at the ripe old age of one day.



Five years ago, Willy and her family, which now consisted of five little Poelwijk's, came to America -- "for the future of our children," Willy explained.

Willy has come a long way since boarding the boat for America. Speaking no English, she now speaks fluently the kind of English we all like to hear -- from a grateful heart. "We love America and I'm starting to school this September so I can become a citizen," she smiled. Willy speaks Indonesian, as well as Dutch, "but my children always answer me in English," she said.

Willy's effervescent enthusiasm is good for E. S. Since attitudes are contagious, we need her kind of spirit scattered among us. "Oh, I just love working here!" Willy exclaimed in her Indonesian accent. "You be sure and tell them how thankful I am." Having worked in canneries and at Western Wirebound Box Company, Willy says, "The work here is so easy and clean," Willy works in Relay Assembly under Don Pooschke.

With a household of seven, it's lucky for Willy and her family that she loves to cook. "Have you ever eaten an Indonesian feast?" she asked. "It's wonderful! They serve, besides white rice, at least 39 main dishes. I wish I could cook some of my special dishes for all of you."

Since this is impossible, Willy shared one of her favorite recipes with us. It's called Bami Goreng (or fried noodles).

- 1 medium-sized package of noodles
- 1/2 cube margarine
- 1 large onion
- 3 garlic cloves
- 1 lb. pork steak
- 1 bunch green onions
- 1 small cabbage

4 t soya sauce

1/4 t pepper

salt to taste

Boil noodles, drain and set aside.

Dice all vegetables.

Saute's large diced onion and diced garlic in margarine.

Brown pork steak in margarine, onion and garlic.

Add one bunch diced green onions (including green stalks) and shredded cabbage. Do not overcook cabbage.

Add soya sauce, pepper, and salt.

Add mixture to noodles. Serves six.

We are glad to have you with us, Willy. Your courageous spirit is the kind of spirit America was founded on. May E. S. help to make your dreams come true.

Slip-Ring Dept. Comments on Cooperation

The Slip Ring Department has been steadily working to improve the quality of the products we make.

The progress has been slow but steady, and I might add, rewarding. As we mentioned not long ago, we have made some changes in our procedures: Changing from soldering to welding leads to rings and broaching the ring itself, which is a new operation.

This keeps the ring and lead firm inside the molded part, and prevents them from breaking loose during the machining process. This has not only improved the part, but also produced a higher quality in plating, and has lowered our scrap rate.

We still have a long way to go to achieve the perfection we would like, but will keep trying to do just that.

As you may have noticed, we are entering into a new era in the Electronic Division, "The Zero Defects Program." Some of us may think this is childish or silly and have quietly put our pins away and ignored them.

During the war years we wore badges -- E Award Pins and never complained. In the same sense this is a war effort too, a war against the possibility of failure in ourselves as well as our product.

I can imagine the gratitude Mr. Gustlin felt last Thursday as he stood up on the desk and surveyed his employees and had to ask for quiet before he could talk. The cartoon that was shown didn't receive as much attention as the contest to see who could get

New Softball Team 'Looks Great'

By Dorothy Martin

The girls who volunteered for the softball team have put together a surprisingly good team. Despite the late start, injuries and rained-out practices, they show great potential.

In the two league games played at the time of this writing, their performance is notable. The first game, against the Esquirettes, was exciting all the way. Our girls tied it up in the fifth when Irene Green sacrificed to score Annie Newharth, but we couldn't hold the Esquirettes from scoring and they won, 14 to 9.

Our girls settled down in their second game, against Aloha, and were leading 8 to 7 in the fifth inning. Aloha came back to score two more and won 9 to 8.

Nita Fogel scored two runs, and both Cheryl Alkinson and Dorothy Martin had doubles.

"For a first year team we are looking great!"

Editors Note: If you haven't yet seen our team play, you are missing all the excitement and partisanship which is American baseball!

He who concentrates on saving steps seldom goes very far.

closest to the time clocks for the 4:15 rush. Yet, how many of us pay a tidy sum to go to the theater and watch Donald Duck with rapt attention?

Is this the kind of respect due the man we look to for reassurance of our jobs? The one who is responsible for the absence of layoffs during the year, which I might add have been numerous in the past. He has taken the time to take his employees out to lunch, let us have a Hawaiian Day, which was enjoyed by all, given us back our Picnic, and provided the kind we can all be proud to take our children to, and presented all the ladies with lovely corsages on Valentine's Day.

We mentioned that he was spoiling us, and his reply was "You are all pretty wonderful people."

I can remember back when indignation rose to an all-time high when a remark was made that, "they could find people for a dime a dozen on the street to come in and replace us," or words to that effect.

So the next time we are asked for fifteen minutes of our attention, let's cooperate with him just as he has with us.